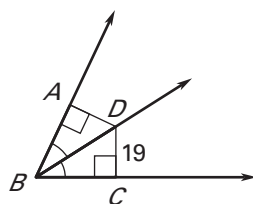
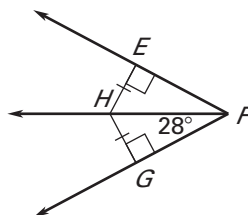


LESSON
5.3**Practice B***For use with pages 310–316***Use the information in the diagram to find the measure.**

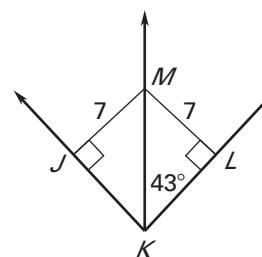
1. Find
- AD
- .



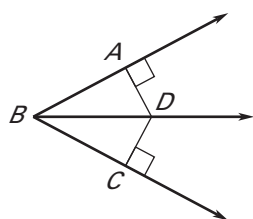
2. Find
- $m\angle EFH$
- .



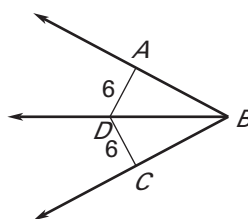
3. Find
- $m\angle JKL$
- .

**Can you conclude that \overrightarrow{BD} bisects $\angle ABC$? Explain.**

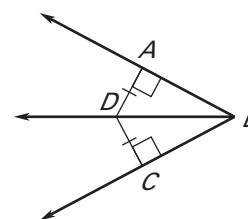
- 4.



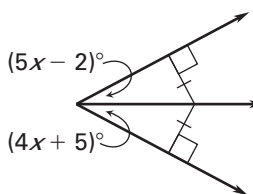
- 5.



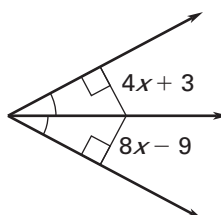
- 6.

**Find the value of x .**

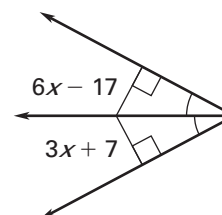
- 7.



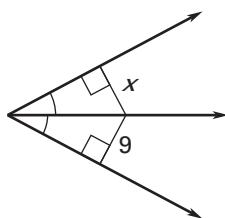
- 8.



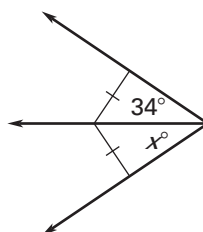
- 9.

**Can you find the value of x ? Explain.**

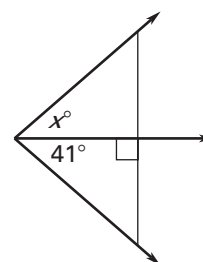
- 10.



- 11.

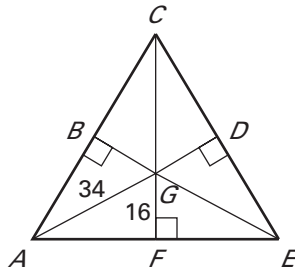


- 12.

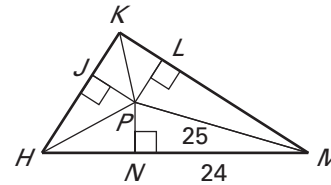
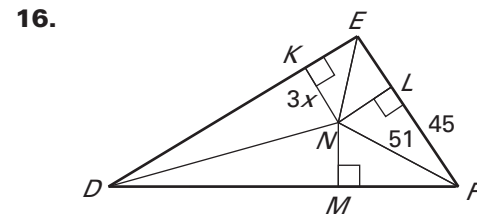
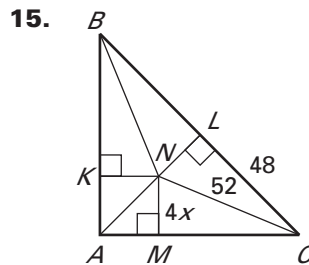


LESSON
5.3**Practice B** *continued*
*For use with pages 310–316***Find the indicated measure.**

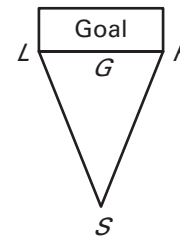
- 13.** Point G is the incenter of $\triangle ACE$.
Find BG .



- 14.** Point P is the incenter of $\triangle HKM$.
Find JP .

**Find the value of x that makes N the incenter of the triangle.**

- 17. Hockey** You and a friend are playing hockey in your driveway. You are the goalie, and your friend is going to shoot the puck from point S . The goal extends from left goalpost L to right goalpost R . Where should you position yourself (point G) to have the best chance to prevent your friend from scoring a goal? *Explain.*



- 18. Monument** You are building a monument in a triangular park. You want the monument to be the same distance from each edge of the park. Use the figure with incenter G to determine how far from point D you should build the monument.

